DriveWire

USB 2.0 to SATA/IDE CABLE

User Guide

Attention:

New security features and partition types require specific instructions that are not included in this manual. Please review the most current DriveWire FAQ's at: apricorn.com/support.php

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TABLE OF CONTENTS

1. Getting to know your DriveWire 4

   Introduction 4

   Features 4

   Package Contents 4

2. System Requirements 4

3. Connecting your DriveWire 5

   DriveWire Connectors 5

4. Software 6

   Before your Backup! 6

   Upgrade Suite (CD-ROM boot) 7

   Installation of EZ Gig II for Windows 8

   Cloning your Hard Drive with Disk Clone 9

   SuperDuper Backup Software For Mac 14

5. Contacting Technical Support 15

6. RMA Policy 15

7. Warranty Conditions 16

8. FAQs 17

1. GETTING TO KNOW YOUR DriveWire

Introduction:

The DriveWire can be used to connect any 2.5” or 3.5” hard drive to your computer with a USB 2.0 interface. The adapter supports 2.5” and 3.5” IDE hard drives, as well as SATA hard drives. Perfect for technicians or anyone needing to copy or off-load files from one hard drive to another.

Features:

USB 2.0 supports up to 480Mbps data transfer rates and 52x CD-ROM data read.

The Package Contains:

- USB to SATA/IDE Cable
- SATA to SATA Cable
- AC Power adapter and cables
- Upgrade Suite CD
- Quick Start Guide

2. SYSTEM REQUIREMENTS

PC

Pentium CPU II or later
64 MB RAM or more
Available USB 2.0 or USB 1.1 port
(USB 2.0 for highest speeds)
CD ROM or CD-RW drive
Windows 2000 Professional
Windows XP Home and Professional

Mac

Apple G3 or later
64 MB RAM or more
Available USB 2.0 or USB 1.1 port
(USB 2.0 for highest speeds)
CD ROM or CD-RW drive
OS 9.2 or later
OS X 10.2 or later

3. CONNECTING YOUR DriveWire

Device Installation:

1. Confirm device jumpers are set to master mode.
   (3.5” IDE/PATA HDD or CD/DVD Optical Drive Only)

Note: See FAQs for more information about master mode

2. Connect SATA/IDE connector to SATA/IDE device.

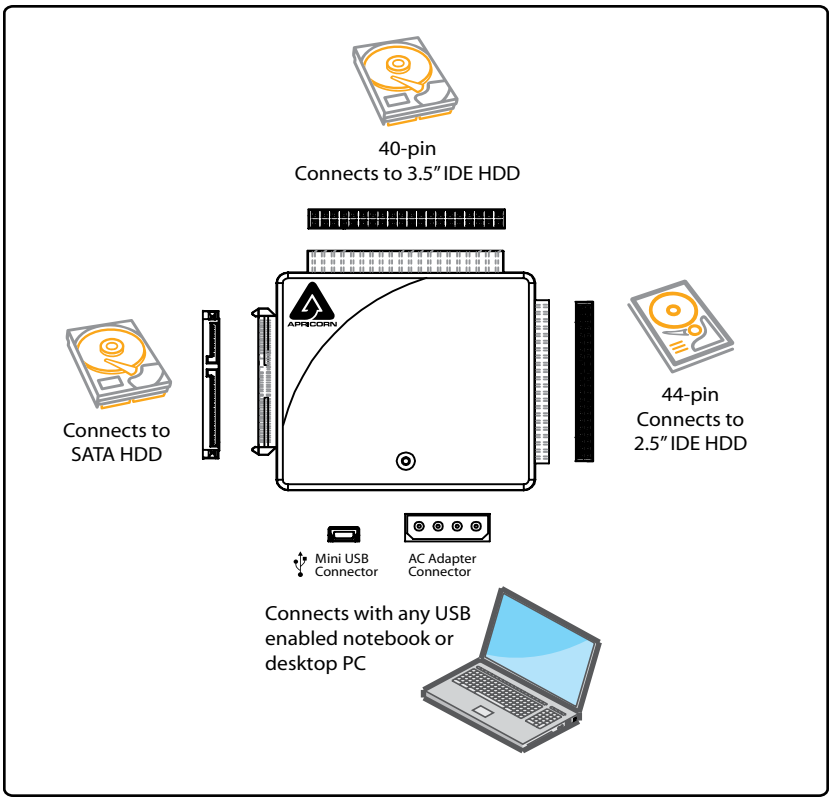
Note: When connecting PATA 2.5” or 3.5” drives to DriveWire, it is necessary to align the polarizing pins in the DriveWire’s connector up with the open space on the hard drive to avoid breaking pins on the hard drive.

3. Connect the AC power adapter to DriveWire. For 3.5” PATA hard drives, plug the AC adapter directly into the hard drive.

CAUTION: Power adapter must be properly alligned to prevent damage.

4. Connect DriveWire to your computer using the Mini USB Cable

DriveWire Connectors



4. SOFTWARE

After many years of use, hard drives can become cluttered with unusable file fragments and other file-system errors. Most file system errors are not immediately obvious to the user, but can be identified and repaired with a few simple steps. Although the steps below are not absolutely necessary to run EZ Gig, it's best to try and clean-up disk errors BEFORE they are copied over to the new drive.

Before running EZ Gig II we recommend you:

1) Clean up any file-system errors by running Windows ScanDisk (or a similar disk cleanup utility) on your internal hard drive.
2) Defragment your hard drive using the Windows Disk-Defragment Utility (or a similar disk defragment utility) on your internal hard drive.
3) Backup any critical files or data.
4) Attach the AC adapter to your laptop, and make sure it is not running on battery power.
5) Attach the USB cable from your computer to the DriveWire.
6) If you plan on running EZ Gig II from the Bootable CD-ROM: You may need to change your laptop's BIOS boot order. You will find these options inside the laptop's BIOS Boot Option Menu. The BIOS Boot Options menu allows the user to select the preferred boot device when the laptop starts up. EZ Gig II can boot directly from the CD-ROM but you must check the BIOS Boot settings to make sure that "CD-ROM" is higher in the boot order than the C: drive.

UPGRADE SUITE (CD-ROM boot)

Upgrade Suite CD is a bootable disk with EZ Gig II data transfer utility that can copy hard drives without booting to the Windows operating system. To use Upgrade Suite as a stand-alone utility, your Computer must be able to boot from a CD-ROM, and the CD-ROM must be set as the first boot device in your computer's System BIOS.

NOTE: The System BIOS controls basic hardware functions in computer, and is the first screen that appears when booting your computer (i.e. before the Windows Startup Logo appears on screen). Consult your Computer's User Manual for instructions on how to enter the System BIOS and change the boot order.

To start EZ Gig II directly from the CD-ROM

1) Insert the Upgrade Suite CD into your CD-ROM Drive.

2) Turn on the Computer and go immediately into the system BIOS screen.

3) Set the CD-ROM as the First Boot device. Save your changes and Exit the BIOS to reboot the computer.

Helpful tip:

☐ Some newer computers display a "Boot Options" message during startup. Pressing the boot options key allows the user to temporarily change the boot-order of the system. Use this option to boot from the CD-ROM without changing the BIOS settings. The actual keys to activate this option will depend upon the manufacturer (some BIOS use the <F12> key, others use the <ESC> key), and the boot option is only available for a few seconds at startup before the BIOS falls back into the normal boot order.

4) Once the BIOS is set correctly, the CD-ROM should boot-up the computer and start the EZ Gig II software.

Installation of EZ Gig II for Windows

1. Insert Upgrade Suite CD into your CD-ROM drive.
2. Setup screen will pop up. Click **Install EZ GIG II** button.

3. EZ Gig II installation screen will pop up.
4. Follow instructions for installation.

Apricorn EZ Gig II Setup
Apricorn
EZ Gig II
Welcome to
Apricorn EZ GIG II®
This wizard will guide you through the Apricorn EZ Gig II installation procedure.
Apricorn EZ Gig II, the next generation in hard disk drive imaging software, allows you to create an exact image of your hard drive and its separate partitions. You will be able to save a full back-up image in a file on your hard drive or on various removable media. Having an image of your hard disk drive will allow you to recover data at any time or deploy a new PC with all your disk contents intact.
Unique imaging technology allows you to create and restore/deploy your hard disk drive image directly under the Windows operating system without the other vendors' tedious reboot procedure. For true back-ups there is truly only one choice Apricorn EZ Gig II.
APRICORN
Please press the Next button to continue.
< Back
Next >
Cancel

Read all instructions carefully before cloning. This is only a quick overview of how to use Disk Clone. For detailed instructions, read Chapter 7. "Transferring the system to a new disk" located in the EZ Gig II manual located on the Upgrade Suite CD

Cloning your hard drive with Disk Clone

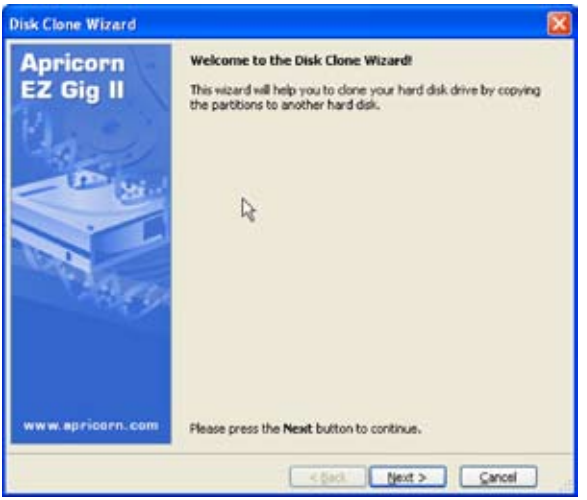
EZ Gig II allows you to clone your hard drive from inside the Windows operating system or by booting directly to the Upgrade Suite CD provided in the kit. All of the procedures are identical and you will skip step number 2. If your system is running normally we recommend that you clone your hard drive by starting up the program inside the windows operating system.

1. Ensure your ***DriveWire*** is connected to your computer.

2. To start EZ Gig II, click **Start > Programs > Apricorn > EZ Gig II** and click on **Apricorn EZ Gig II.** This will open the main screen of EZ Gig II. You can also click on the **Apricorn EZ Gig II** icon on the Desktop.

3. Under New Disk Deployment on the main screen double click on the **"Disk Clone"** icon to open Disk Clone Wizard.

4. When you see the "**Welcome to the Disk Clone Wizard!**" screen. Click **Next** to continue.

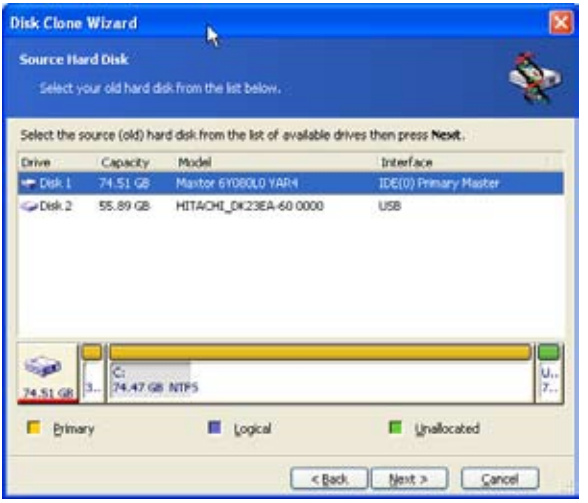

Disk Clone Wizard
Apricorn
EZ Gig II
www.apricorn.com
Welcome to the Disk Clone Wizard!
This wizard will help you to clone your hard disk drive by copying the partitions to another hard disk.
Please press the Next button to continue.
< Back
Next >
Cancel

5. The "Upgrade Mode" screen will appear. Select "Automatic Upgrade" and click **Next** to continue.

Disk Clone Wizard
Clone Mode
You can choose between either fully automated or manual clone modes.
Select the hard disk clone mode. You can find the description of your selection below. Press Next when ready to proceed:
Automatic
Expert
Description
Automatic mode is used for hard disk cloning. All your partitions from the old hard disk will be copied to the new one in few simple steps and make your new hard disk bootable. All your partitions will be automatically resized to fit the new hard disk. Note that you have to remove the old hard disk when data moving is completed.
Suitable for most users.
< Back
Next >
Cancel

6. If the hard disk drive to receive the cloned data is new or blank, proceed to step 10. If the hard disk drive to receive the cloned data either contains data or is formatted, proceed to step 7.

7. The "Source Hard Disk" screen will appear. Select the appropriate source hard disk. The source hard disk is typically the old hard disk. Click **Next** to continue.

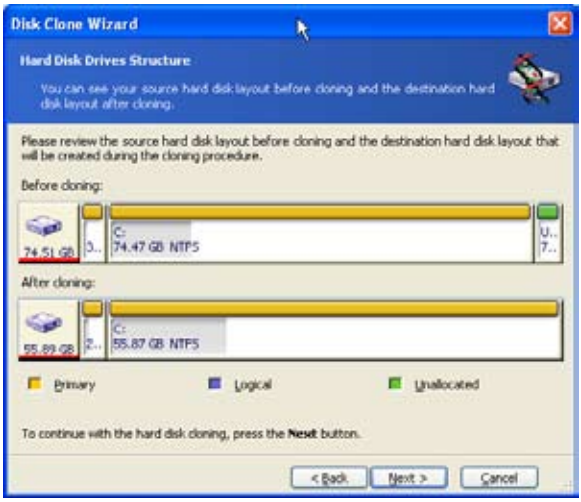


8. The "Destination Hard Disk" screen will appear. Select the appropriate destination hard disk. The destination hard disk is typically your new hard disk drive. Click **Next** to Continue.

9. The "Nonempty Destination Hard Disk" screen will appear when you have selected to transfer data to a drive that already contains data. **If you need to confirm that you have selected the proper source and destination drives, click the Back button to check.** If you have chosen the proper source and destination drives, then select the "Delete partitions on the destination hard disk" button. Click **Next** to continue.

Disk Clone Wizard
Nonempty Destination Hard Disk
You have chosen a destination hard disk that already contains some partitions.
The destination drive you have chosen contains some partitions that might have useful data. Hard disk cloning is possible only if the destination hard disk is empty. In order to proceed with the cloning, you should either allow Apricorn EZ Gig II to delete all the partitions on the destination hard disk or press Back and choose another destination hard disk.
Delete partitions on the destination hard disk
No, I do not want to delete partitions
Description
Delete all partitions on the destination hard disk.
Will destroy all your data on the destionation hard disk. Make sure you have chosen the right destination disk.
< Back
Next >
Cancel

10. The "Hard Disk Drives Structure" screen will appear. This screen shows the source hard disk layout before the cloning process and the destination hard disk layout after the cloning process. Click **Next** to continue.


Disk Clone Wizard
Hard Disk Drives Structure
You can see your source hard disk layout before cloning and the destination hard disk layout after cloning.
Please review the source hard disk layout before cloning and the destination hard disk layout that will be created during the cloning procedure.
Before cloning:
74.51 GB
C:
74.47 GB NTFS
After cloning:
55.89 GB
C:
55.87 GB NTFS
Primary
Logical
Unallocated
To continue with the hard disk cloning, press the Next button.
< Back
Next >
Cancel

11. The next screen outlines the operations that Disk Clone will perform. Click **Proceed** to continue with cloning your hard disk drive.

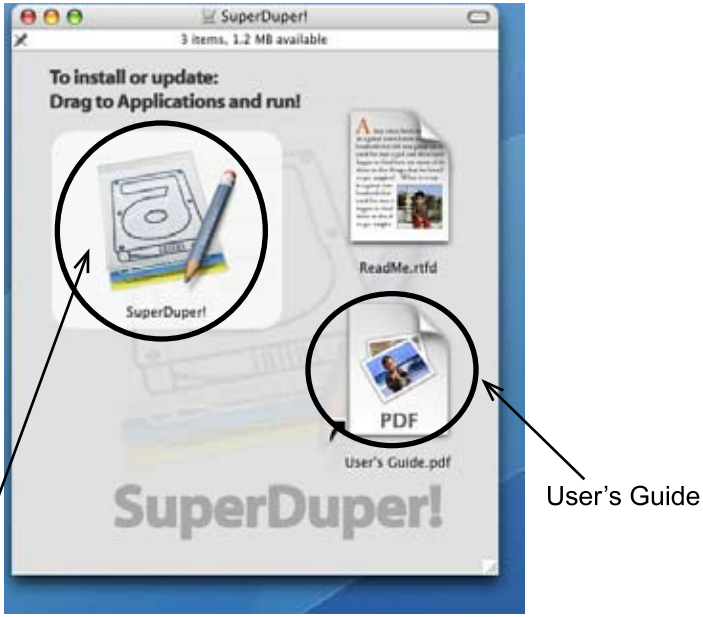
12. The cloning process will begin after the "Reboot" button is pressed.

Do not turn your computer off during this process. However, your computer will reboot itself during the clone process (this is normal) and you should let the process continue until you see the congratulations screen. When the congratulations screen appears, turn off your computer using the power button. Then unplug the DriveWire from the computer. DO NOT REBOOT THE COMPUTER WITH A CLONED HARD DRIVE IN THE DriveWire . To do so may alter some settings of the Windows operating system.

13. You have completed the cloning process and now have an exact bootable clone of your hard drive.

SuperDuper! Backup Software for Mac

1. Insert Apricorn CD into your CD-ROM drive
2. When the Apricorn CD appears on your desktop, double click to open.
3. Double click on the **SuperDuper!.dmg** icon
4. This will open the package and mount a drive on your desktop.
5. Open this drive by clicking on the newly created disk icon. The below window will open on your screen.



6. To install **SuperDuper!** drag **SuperDuper!** icon to Applications and run.
7. Follow the instructions included on the SuperDuper! User's Guide to setup.

5. CONTACTING TECHNICAL SUPPORT

Apricorn provides the following helpful resources for you:

1. Hardware Installation Section of the User's Guide.

2. Apricorn's Website (http://www.apricorn.com)
   This gives you the ability to check for up-to-date information.

3. Email us at support@apricorn.com.

4. Or call the Technical Support Department at 1-800-458-5448.

   Apricorn's Technical Support Specialists are available from 8:00 a.m. to 5:00 p.m., Pacific Time from Monday through Friday.

6. RMA POLICY

An RMA (Return Merchandise Authorization) tracking number must be issued by Apricorn. If you need to return or replace your DriveWire Apricorn requires that you perform the following steps:

1. Simply call Apricorn's technical support department with your DriveWire part number and a description of the problem(s) you are experiencing.

2. If the Apricorn representative finds cause for a return, they will issue an RMA number. Please write this number down.

3. Fill out an RMA authorization form with your package. The RMA form is available on-line at *http://www.apricorn.com/support/rma.php.*

4. Please send the prepaid package to the following address, make sure the RMA# is written on the exterior of the package:

   Apricorn
   RMA#: _____
   12191 Kirkham Road
   Poway, CA 92064

The purchaser shall be responsible for any loss or damage to the returned product until it is received by Apricorn. Purchaser should consider obtaining insurance with respect to shipping the product.

7. WARRANTY INFORMATION

One-Year Warranty:

Apricorn will warrant the DriveWire against defects in materials and workmanship under normal use for one year. The warranty period is effective from the date of purchase either directly from Apricorn or an authorized reseller.

Disclaimer and Terms of the Warranties:

THE WARRANTY BECOMES EFFECTIVE ON THE DATE OF PURCHASE AND MUST BE VERIFIED WITH YOUR SALES RECEIPT OR INVOICE DISPLAYING THE DATE OF PRODUCT PURCHASE.

APRICORN WILL, AT NO ADDITIONAL CHARGE, REPAIR OR REPLACE DEFECTIVE PARTS WITH NEW PARTS OR SERVICEABLE USED PARTS THAT ARE EQUIVALENT TO NEW IN PERFORMANCE. ALL EXCHANGED PARTS AND PRODUCTS REPLACED UNDER THIS WARRANTY WILL BECOME THE PROPERTY OF APRICORN.

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8. FAQs

1. What is USB 2.0?

USB 2.0 represents the next generation of PC peripherals and connectivity. USB 2.0 is the first major evolution of the Universal Serial Bus standard, which was originally designed to bring low cost connections and "plug-and-play" consumer devices to the PC world. USB 2.0 adds new functionality to your laptop, by allowing faster connections and greater flexibility without the need for upgrading your existing USB devices.

2. Why USB 2.0?

Modern PC peripherals can run faster and do more than the original USB designers ever dreamed. The USB standard was upgraded to keep pace with the rapid advances in technology, and the explosion of new consumer devices. USB 2.0 host controllers add the faster speeds and greater flexibility than these new devices require. USB 2.0 will allow your computer to connect to the newest USB devices: High-Speed Video and Ethernet, ultra-fast scanners and disk drives, etc.

3. How much faster is USB 2.0?

USB 1.1 devices can communicate at about 12 Megabits/sec. USB 2.0 devices can communicate at speeds of up to 480 Megabits/sec.

4. What Windows software is included with my DriveWire?

EZ Gig II for Windows is one of the most powerful yet easy to use backup utilities available. EZ Gig II is the second generation of the award winning EZ Gig Data Transfer Utility. It now supports transferring data via USB, PC Card, or internal IDE Bus. EZ Gig II is comprised of two modules:

Disk Clone is ideal for users who require an exact copy of their hard drive. A cloned copy of a hard drive can be used for disaster recovery backup, or as a hard drive upgrade.

Disk Image takes a snapshot of your entire system and compresses it into a file up to half its original size. This method takes up less space, thus allowing multiple backups to a single drive. The Image option also includes a File Editor that allows the editing or restoration of individual files or folders and a password to be assigned to a backup image, providing security for your data. A detailed description for each image can be entered giving the user total flexibility to retain backups from multiple dates, or multiple computers.

5. What Mac software is included with my DriveWire?

SuperDuper! is the wildly acclaimed program that makes recovery painless, because it makes creating a fully bootable backup painless. Its incredibly clear, friendly interface is understandable, easy to use. And it runs beautifully on both Intel and Power PC Macs! SuperDuper's interface confirms all your actions in simple, clear language to ensure that the end result is exactly what you intended.

6. What is the difference between "cloning" and "imaging"?

Disk Cloning is an exact copy of one drive to another. In doing so, a Clone can boot and run the operating system. The data is exactly the same on both drives.

Disk Imaging copies the data on the drive and stores it as a file. This file can be compressed to a smaller size to take up less space. The Image is not bootable.

7. Can I make a clone of my drive and put it in a different machine?

A clone is for disaster recovery purposes (i.e. when your drive fails and you need to get back up and running). No, you should not make a clone of your drive and put it in another or multiple machines. There are licensing issues for the software on your machine.

8. Why am I unable to save a file larger than 4GB on to my Hard drive?

Fat 32 has a file size limitation of 4GB. If you are using Windows 2000 or XP, you can reformat the drive to NTFS. By reformatting the drive to NTFS, you eliminate the 4GB limitation, but you will also lose any data stored on the drive. Either reformat to NTFS before using it for the first time, or backup the data before reformatting.

9. I am unable to format my 40GB or larger hard drive with FAT 32 in Windows 2000 or XP?

Windows 2000 and XP limit a FAT32 partition to 32GB. If you choose to format the drive in a larger partition, you will need to use the NTFS file system.

10. Can I boot Windows to my USB Device?

No. Because of limitations (both hardware and software) Windows is currently prevented from booting and running off a USB drive.

11. What is master mode?

Master mode is a jumper setting that only applies to 3.5" IDE/PATA hard drive or CD/DVD Optical Drives and determines which hard drive or CD/DVD optical drive is the main boot device on the primary ATA bus, or if it is to be the master device on the secondary ATA bus of an enhanced ATA controller.

12. How do I set my hard drive to master mode?

Setting your hard drive to master mode will vary from one hard drive manufacturer to another. In most cases there will be a diagram on top of your hard drive that shows the location and proper settings to configure the drive as the Master. If it is not obvious, please refer to the manufacturers support website for more information.

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12191 Kirkham Road
Poway, CA, U.S.A. 92064
1-800-458-5448
www.apricorn.com